BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

(23)

Estimate Cost Rs. 1900000.00

Name of Work: Detailed Estimate for the work of Construction of CC road and drains at cross roads of jnanabharathi school in chowdeshwari layout in ward No-02 of yelahanka Sub division.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH chapter 3, No. 138/ Item No. 19.1/ PWD SR 2014-15	cum							
	road levelling		1	120.00	3.00	0.15	54.00		
			1	40.00	3.00	0.15	18.00		
							72.00	**75.60**	**5443.00**
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	**75.60**							
2	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.3/ PWD SR 2014-15	cum							
	for cc road		1	120.00	3.00	0.15	54.00		
			1	40.00	3.00	0.15	18.00		
	for RCC drain		1	75.00	1.00	0.90	67.50		
			2	20.00	1.00	0.90	36.00		
	culvert		3	6.00	1.50	1.00	27.00		
							202.50	**176.04**	**35648.00**
	Basic Rate	163.00							

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 8%	13.04							
	Total	**176.04**							
3	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 130 (SR 2014-15)	cum							
			Vide Item No. 1+2				**274.50**	**79.10**	**21713.00**
	Basic Rate for loading and unloading	63.00							
	Basic Rate for Haulage upto 4.00 k.m =1.28 X 2 X 4	10.24							
		73.24							
	Area Weightage @ 8%	5.86							
	Total	**79.10**							
3	KSRRB M300-53: construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification Page No. 305.4.3, No. 144/ Item No. 19.60/ PWD SR 2014-15	cum							
			1	120.00	3.00	0.45	162.00		
			1	40.00	3.00	0.40	48.00		
							210.00	**220.32**	**46267.00**
	Basic Rate	204.00							
	Area Weightage @ 8%	16.32							
	Total	**220.32**							

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRB-4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement at 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2, No. 12/ Item No. 4.2/ PWD SR 2014-15	Cum							
	for road		1	120.00	3.00	0.15	54.00		
			1	40.00	3.00	0.15	18.00		
	for rcc drain		1	75.00	1.00	0.15	11.25		
			2	20.00	1.00	0.15	6.00		
	culvert		3	6.00	1.50	0.15	4.05		
							93.30	**5064.12**	**472482.00**
	Basic Rate	4689.00							
	Area Weightage @ 8%	375.12							
	Total	**5064.12**							
6	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, **lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc**, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1.4.6, No. KBS 4.1.4.6, No. 13/ Item No. 4.11/ PWD SR 2014-15	Cum							
	for rcc drain bed		1	75.00	0.90	0.15	10.13		
	side walls		2	75.00	0.15	0.70	15.75		
	bed		2	20.00	0.90	0.15	5.40		
	side walls		4	20.00	0.15	0.70	8.40		
	for culvert		3	6.00	1.20	0.30	6.48		
	side walls		6	6.00	0.30	0.70	7.56		
	deck		3	6.00	1.20	0.30	6.48		
							60.20	**6065.28**	**365100.00**

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	5616.00							
	Area Weightage @ 8%	449.28							
	Total	6065.28							
7	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 19/ Item No. 4.46/ PWD SR 2014-15	Quintal							
	90 kg/cum for culvert		0.900	**20.52**			18.47		
	70 kg/cum for RCC drain		0.700	**39.68**			27.77		
				60.20			**46.24**	**7254.80**	**335466.00**
	Basic Rate	7254.80							
8	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters,bittresses,buttresses plinth and string course including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15/ Item No. 4.31/ PWD SR 2014-15	sqm							
	rcc drain	1x4	4	75.00		0.70	210.00		
		2x4	8	20.00		0.70	112.00		
	side walls	3x4	12	6.00		0.70	50.40		
	deck	3x1	3	6.00	1.20		21.60		
							394.00	**292.68**	**115316.00**
	Basic Rate	271.00							
	Area Weightage @ 8%	21.68							
	Total	**292.68**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRRB M600-6: cement concrete pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing,), spreading the concrete with shovels, rackers compacted using needle, scred and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grade as per drawing complete as per specification M30(at 360kg per cum coarse aggregate @ 0.69cum and fine aggregare @ 0.46cum). , No. 171/ Item No. 22.6.1 SR 2014-15	Cum							
	for road		1	120.00	3.00	0.10	36.00		
			1	40.00	3.00	0.10	12.00		
							48.00	**5896.80**	**283046.00**
	Basic Rate	5460.00							
	Area Weightage @ 8%	436.80							
	Total	**5896.80**							
6	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift. Page No 171 Item No 22.7 SR 2014-15	Sqm							
			1	120.00	3.00		360.00		
			1	40.00	3.00		120.00		
							480.00	**97.20**	**46656.00**
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	**97.20**							

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	Providing groove cutting for width of 5mm to 100m depth 80mm-100 including cost of cutting machine, generatoe & HOM of machinery, including cost of blade, coolant etc., including cleaning of groove & providing sand and hot birumen fillars, and filler metal etc., including cost of conveyance of all materials,. Labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. do- for concrete pavement Item no 22.8.1 Page No 178 SR 2014-15	Rmt							
	for cc road		12	3.00			36.00		
			4	3.00			12.00		
							48.00	124.20	5962.00
	Basic Rate	115.00							
	Area Weightage @ 8%	9.20							
	Total	124.20							
10	RCC Precast covering slab for drain (10cm thick)	sqm							
	for rcc drain		1	75.00	0.90		67.50		
			2	15.00	0.90		27.00		
							94.50	1498.00	141561.00
	Rate Approved by BBMP	1498.00							
11	1% of Quality control charges								19000.00
12	Miscellaneous charges								6340.00
								Total	1900000.00
	(Rupees Ninteen Lakhs Only)								

Administrative Sanction for Rs. 19.00 Lakhs
Nineteen Lakhs only
is accorded under head P.17.7.1
2014-15
Registered as CE No. Subject
to conditions contained in enclosed memo
No CE(NK)/AA/TS/14-15 Dt. 27.10.14
AE/JE TA CE(NK)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

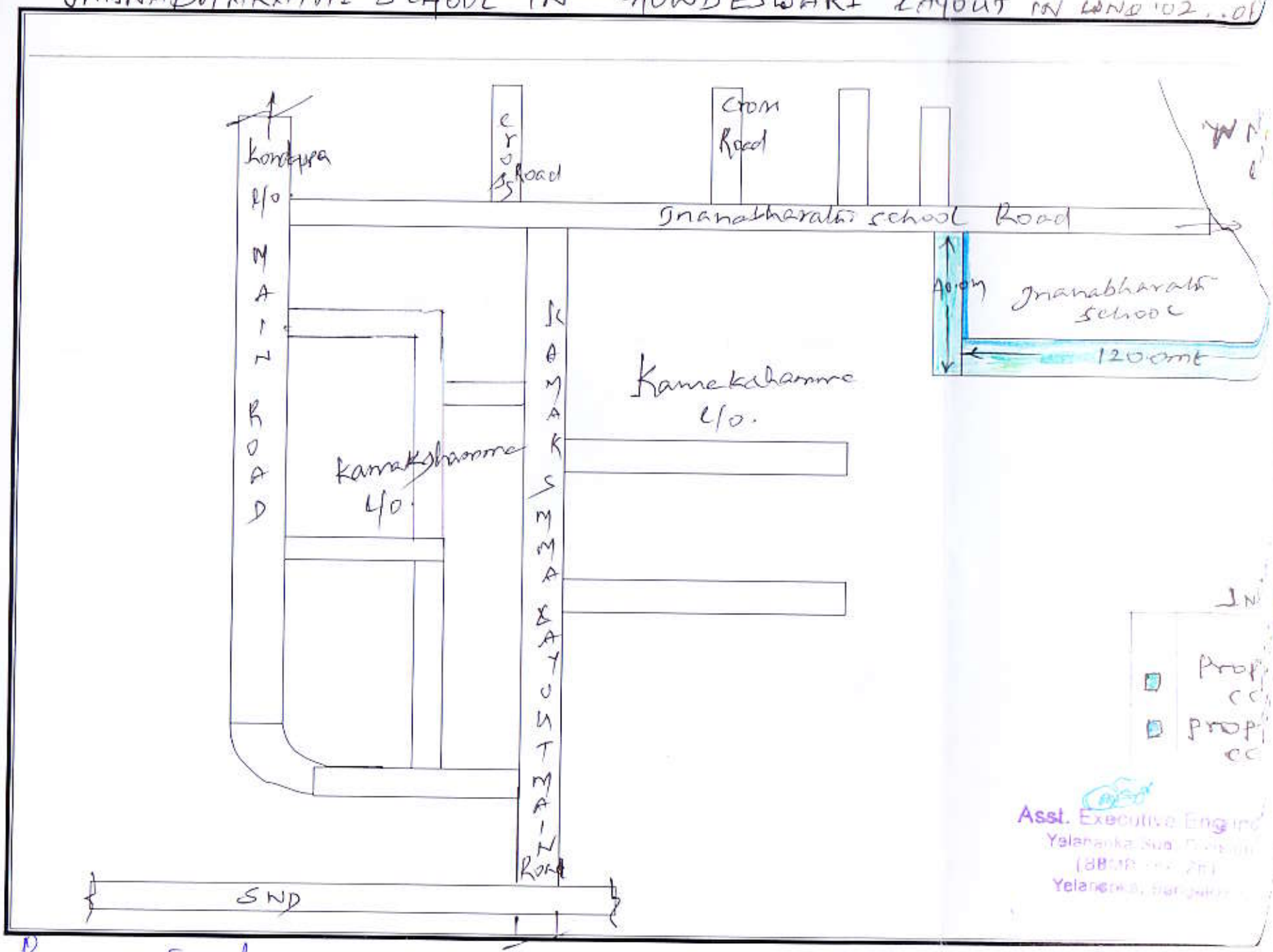
Assistant Engineer

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

TECHNICALLY SANCTIONED FOR Rs. 19,00,000/-
Rupees Nineteen Lakhs only
Under P.17.7.1.
2014-15
Registered as CE ( ) No. 39
Subject to conditions contained in enclosed memo EE ( ) No. /91
Dt. Estimate A/ Sanctioned
CE(NK)/TS/40/14-15
Dated 28.10.14 Rs. 19.00 Lakhs
Executive Engineer

NAME OF WORK:- CONSTRUCTION OF C.C. ROAD & DRAINS @ CROSSROADS IN JNANABHARATHI SCHOOL IN CHOWDESWARI LAYOUT IN WARD '02..



Asst. Executive Engineer
Yelahanka Sub Division
(BBMP)
Yelahanka, Bangalore

Ramaccjaeny